

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P365263

Luminaire Tested: **FLD6BX15D010-FEU6B12-8027-F6LBXVM1-MW-BTR89BI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P365263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX15D010-FEU6B12-8027-F6LBXVM1-MW-BTR89BI
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, MATTE WHITE REFLECTOR,
BOTTOM TRIM ACRYLIC, CLEAR RFI 0.125", 1500LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 809.9 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.84
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

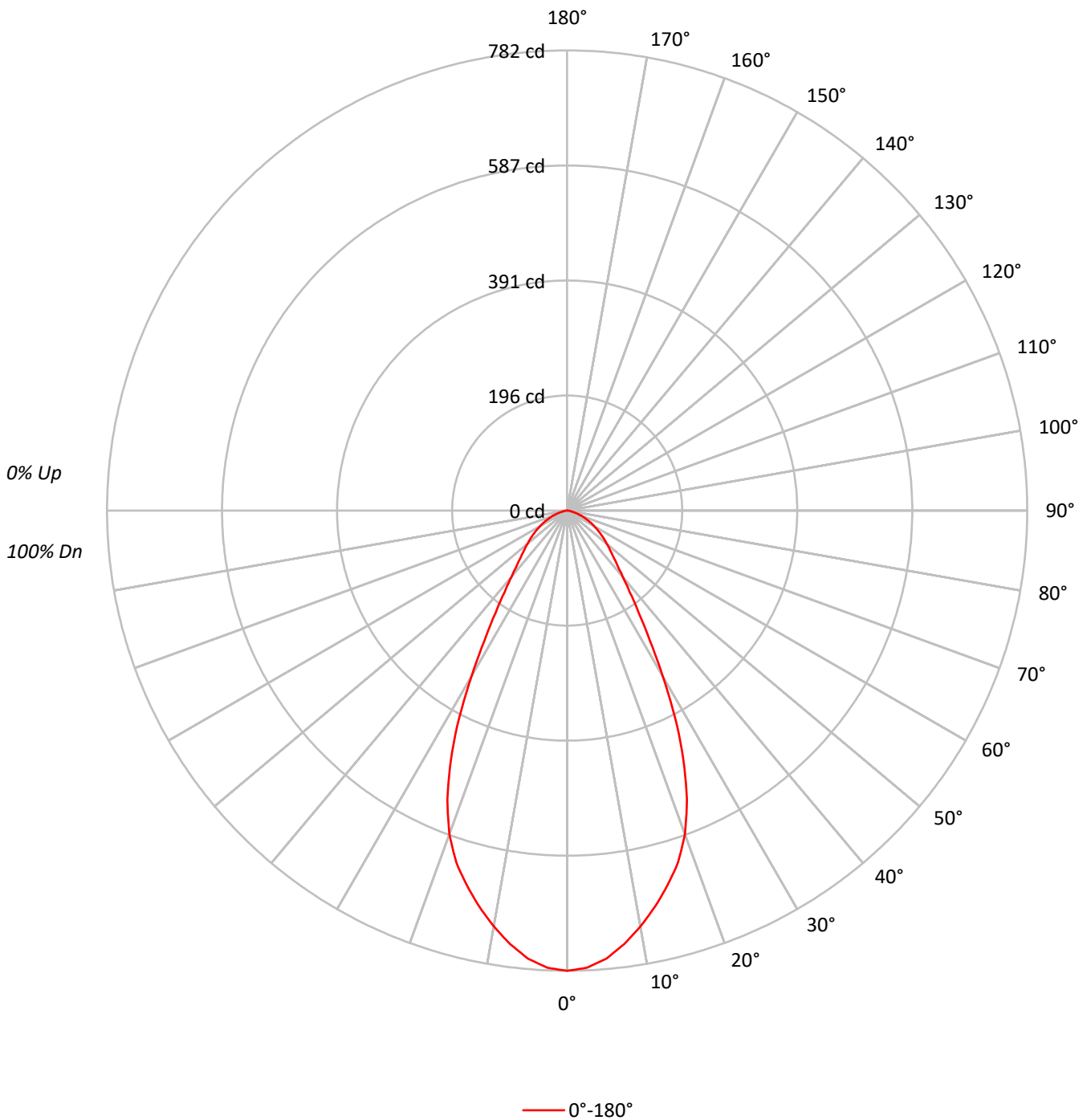
Input Watts (W): 14.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 112 | 109 | 106 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 92 | 90 | | | | | 90 | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 81 | | | | | 81 | | | |
| 3 | 98 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 86 | 82 | 78 | 84 | 80 | 77 | 82 | 78 | 75 | 74 | | | | | 74 | | | |
| 4 | 92 | 83 | 77 | 72 | 90 | 82 | 76 | 71 | 80 | 75 | 70 | 78 | 73 | 70 | 76 | 72 | 69 | 67 | | | | | 67 | | | |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 68 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 61 | | | | | 61 | | | |
| 6 | 82 | 72 | 65 | 60 | 80 | 71 | 64 | 59 | 69 | 63 | 59 | 68 | 62 | 58 | 66 | 62 | 58 | 56 | | | | | 56 | | | |
| 7 | 77 | 67 | 60 | 55 | 76 | 66 | 59 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 52 | | | | | 52 | | | |
| 8 | 73 | 62 | 56 | 51 | 72 | 62 | 55 | 51 | 61 | 55 | 50 | 59 | 54 | 50 | 58 | 54 | 50 | 48 | | | | | 48 | | | |
| 9 | 69 | 59 | 52 | 47 | 68 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 | | | | | 45 | | | |
| 10 | 66 | 55 | 49 | 44 | 65 | 55 | 48 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 47 | 44 | 42 | | | | | 42 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 56000 |
| 5° | 54934 |
| 10° | 52167 |
| 15° | 48858 |
| 20° | 44598 |
| 25° | 36966 |
| 30° | 26821 |
| 35° | 18548 |
| 40° | 13721 |
| 45° | 11220 |
| 50° | 9836 |
| 55° | 8751 |
| 60° | 7633 |
| 65° | 6489 |
| 70° | 5192 |
| 75° | 3762 |
| 80° | 2680 |
| 85° | 3040 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.4 | 8.8 |
| 10°-20° | 184.3 | 22.8 |
| 20°-30° | 210.8 | 26.0 |
| 30°-40° | 136.7 | 16.9 |
| 40°-50° | 87.1 | 10.8 |
| 50°-60° | 62.7 | 7.7 |
| 60°-70° | 38.1 | 4.7 |
| 70°-80° | 15.2 | 1.9 |
| 80°-90° | 3.6 | 0.4 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 466.5 | 57.6 |
| 0°-40° | 603.2 | 74.5 |
| 0°-60° | 753.0 | 93.0 |
| 0°-90° | 809.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 809.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 782 | |
| 5° | 764 | 71 |
| 15° | 659 | 184 |
| 25° | 468 | 211 |
| 35° | 212 | 137 |
| 45° | 111 | 87 |
| 55° | 70 | 63 |
| 65° | 38 | 38 |
| 75° | 14 | 15 |
| 85° | 4 | 4 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 782.1 |
| 2.5° | 777.4 |
| 5° | 764.3 |
| 7.5° | 742.8 |
| 10° | 717.5 |
| 12.5° | 689.5 |
| 15° | 659.1 |
| 17.5° | 626.9 |
| 20° | 585.3 |
| 22.5° | 532.0 |
| 25° | 467.9 |
| 27.5° | 397.8 |
| 30° | 324.4 |
| 32.5° | 261.3 |
| 35° | 212.2 |
| 37.5° | 174.8 |
| 40° | 146.8 |
| 42.5° | 126.2 |
| 45° | 110.8 |
| 47.5° | 98.6 |
| 50° | 88.3 |
| 52.5° | 79.0 |
| 55° | 70.1 |
| 57.5° | 61.2 |
| 60° | 53.3 |
| 62.5° | 45.8 |
| 65° | 38.3 |
| 67.5° | 31.3 |
| 70° | 24.8 |
| 72.5° | 19.2 |
| 75° | 13.6 |
| 77.5° | 9.3 |
| 80° | 6.5 |
| 82.5° | 4.2 |
| 85° | 3.7 |
| 87.5° | 1.9 |
| 90° | 0.0 |

(END OF REPORT)